TAEWOO KO

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EDUCATION

00 / 2022	Dl. D. in Construction Science
08 / 2022	Ph. D. in Construction Science
	Texas A&M University, College Station, Texas
	Dissertation: "Natural Language Processing-Driven Approach to Utilization of
	Unstructured Textual Data for Enhanced Project Planning"
	Advisor: Professor H. David. Jeong (djeong@tamu.edu)
2014	M.S. in Construction Engineering
	Seoul National University, Seoul, South Korea
	Thesis: "An Evaluation Model for Work Sequences in Preventive Maintenance Using
	Fuzzy-Sets"
	Advisor: Professor Moonseo Park (<u>mspark@snu.ac.kr</u>)
2012	B.S. in Architecture and Architectural Engineering (AAAE)
	Seoul National University, Seoul, South Korea
	Concentration: Architectural Engineering, Construction Management

PROFESSIONAL POSITIONS

08/2023 - Present	Assistant Professor, Department of Engineering and Technology, Texas A&M
	University-Commerce, Commerce, Texas.
08/2022 - 08/2023	Post-doctoral Research Associate, University of Nevada, Las Vegas, Las Vegas,
	Nevada.
08/2018 - 08/2022	Graduate Research Assistant, Texas A&M University, College Station, Texas.
11/2015 - 10/2017	Cost Estimator, DL Construction, Seoul, South Korea (2 years)
	 Conducted feasibility studies of various commercial and residential complex projects
	 Estimates project preliminary and bidding costs for various commercial and
	residential complex projects
	 Served as an administrator for managing project cost data for future projects
11/2015 - 10/2017	BIM manager, Construction techniques development TaskForce (TF) team, DL
	Construction, Seoul, South Korea (2 years)
	 Incorporated BIM system into current data management system
	• Participated in developing the BIM information management system

HONORS & AWARDS

2023	ASCE Editor's Choice, Journal of Management in Engineering, "Natural Language
	Processing-Driven Similar Project Determination Using Project Scope Statements,"
	Issue 3, May 2023.
2023	Awards for the AKC10 Poster competition, Transportation Research Board (TRB)
	102nd Annual Meeting, Washington D.C., January 8–12, 2023.
2022	Award of outstanding Ph.D. Student, Department of Construction Science, Texas A&M
	University
2020	Graduate Student Research and Presentation Travel Award from the Office of
	Graduate and Professional Studies, Texas A&M University

PUBLICATIONS

- 1) **Ko, T.**, Lee, J., & Jeong, H. D. "Project Requirements Prioritization through NLP-Driven Classification and Adjusted Work Items Analysis". *ASCE Journal of Construction Engineering and Management*, (**To-be Published**), https://doi.org/10.1061/JCEMD4.COENG-13655. *Impact factor*: 5.605.
- 2) Shrestha, R., **Ko, T.,** & Lee, J (2023). "Uncertainties Prevailing in Construction Bid Document and their Impact on Project Pricing through the Analysis of Pre-bid Request for Information (RFI)" *ASCE Journal of Management in Engineering*, 39(6), 04023040. https://doi.org/10.1061/JMENEA.MEENG-5475, *Impact factor*: 6.589.
- 3) **Ko, T.**, David Jeong, H., & Lee, J. (2023). Natural Language Processing—Driven Similar Project Determination Using Project Scope Statements. *ASCE Journal of Management in Engineering*, 39(3), 04023005. https://doi.org/10.1061/JMENEA.MEENG-522, (Editor's Choice), *Impact factor*: 6.589.
- 4) **Ko, T.**, Jeong, H. D., & Lee, G. (2021). "Natural Language Processing–Driven Model to Extract Contract Change Reasons and Altered Work Items for Advanced Retrieval of Change Orders". *ASCE Journal of Construction Engineering and Management*, 147(11), 04021147, https://doi.org/10.1061/(ASCE)CO.1943-7862.0002172, *Impact factor*: 5.605.
- 5) <u>Ko, T.</u>, Shrestha, R., & Jeong, H. D. (2024). "Pro-active Allocation of Project Requirements through Natural Language Processing (NLP) and Project Information System Integration". *In Construction Research Congress* (*CRC*)2024. Mar. 20-23, Des Moines, IA (**To be present**)
- 6) Shrestha, R., Ko. T., & Lee J. (2023). "Natural Language Processing (NLP)-driven Classification of Pre-Bid Request for Information (RFI) for Enhanced Bidding Process". ASCE International Conference on Computing in Civil Engineering (I3CE 2023), Jun. 25-28, 2023, Oregon.
- 7) <u>Ko, T.</u>, Le, C., Jeong, H. D., & Choi, K.C. "Historical Data-Driven Approach to Enhanced Construction Contingency Estimating", *Transportation Research Board (TRB) 102nd Annual Meeting, Washington D.C., January 8–12, 2023.*
- 8) <u>Ko, T.</u>, Jeong, H. D., & Lee J. (2022). "Integrating Natural Language Processing with Project Data Digitalization Techniques: A Systematic Review". *The 22nd International Conference on Construction Applications of Virtual Reality (CONVR 2022)*, Nov. 16-18, 2022, Seoul, South Korea.
- 9) <u>Ko, T.</u>, Jeong, H. D., & Lee J. (2022). "AI-Based Project Similarity Evaluation Model Using Project Scope Statements". *The 9th International Conference on Construction Engineering and Project Management* Jun. 20-23, 2022, Las Vegas, NV, USA.

10) Ko, T., & Jeong, H. D. (2020). "Syntactic Approach to Extracting Key Elements of Work Modification Cause in Change-Order Documents". *In Construction Research Congress (CRC) 2020: Project Management and Controls, Materials, and Contracts* (pp. 134-142). Tempe, AZ: American Society of Civil Engineers.

SERVICE

Journal & Conference Reviewer

2019 - present ASCE Journal of Construction Engineering & Management

2019 - present ASCE Journal of Management in Engineering
2019 ASCE Construction Research Congress

Committee Activity

Fall, 2023 Program Committee for B.S in Construction Engineering

PROFESSIONAL AFFILIATION

2019 – present American Society of Civil Engineers (ASCE)